

## Scalable Gravity Offload System, Phase I

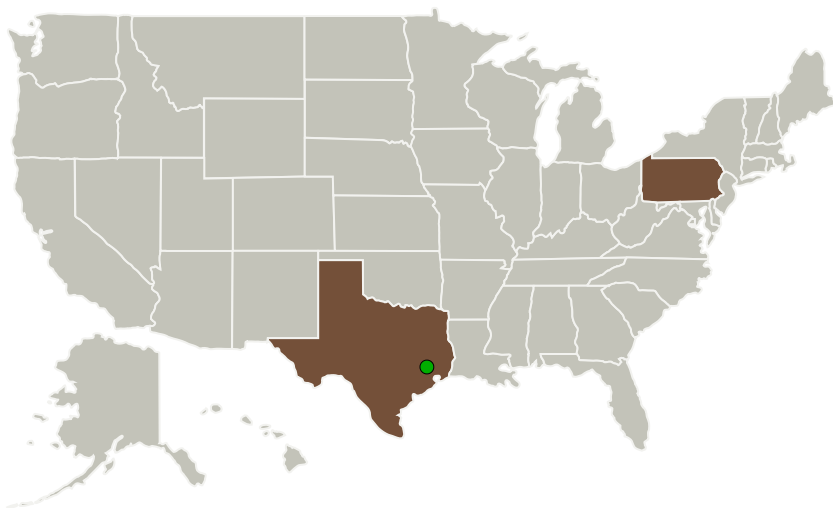
Completed Technology Project (2010 - 2011)



## Project Introduction

The proposed innovation is a scalable gravity off-load system that enables controlled integrated testing of Surface System elements such as rovers, habitats, and space suits in planet-relevant gravity which addresses T6.02 in the direct solicitation of a gravity off-load system. Phase I delivers a nominal design in the form of a final report, Phase II builds this design and delivers hardware, and Phase III commercializes the gravity off-load system as a commercial product/service of Astrobotic Technology.

## Primary U.S. Work Locations and Key Partners



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Organizations Performing Work	Role	Type	Location
Astrobotic Technology, Inc.	Lead Organization	Industry	Pittsburgh, Pennsylvania
Carnegie Mellon University	Supporting Organization	Academia	Pittsburgh, Pennsylvania
● Johnson Space Center(JSC)	Supporting Organization	NASA Center	Houston, Texas

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### Primary U.S. Work Locations

Pennsylvania

Texas

### Project Transitions



**January 2010:** Project Start



**January 2011:** Closed out

#### Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/140147>)

### Organizational Responsibility

#### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

#### Lead Organization:

Astrobotic Technology, Inc.

#### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

### Project Management

#### Program Director:

Jason L Kessler

#### Program Manager:

Carlos Torrez

#### Principal Investigator:

William Whittaker

#### Co-Investigator:

William Whittaker

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### Technology Maturity (TRL)

Start: **2**  
Current: **3**  
Estimated End: **3**



### Technology Areas

#### Primary:

- TX13 Ground, Test, and Surface Systems
  - └ TX13.4 Mission Success Technologies
    - └ TX13.4.6 Ground Analogs for Space/Surface Systems

### Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System